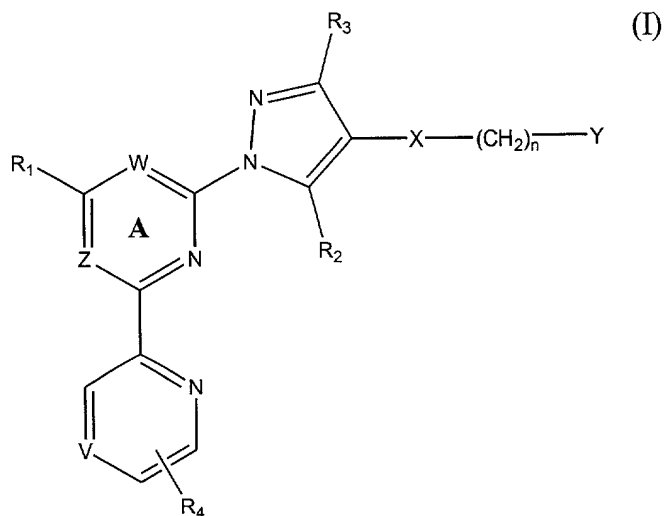


## CLAIMS

What is claimed is:

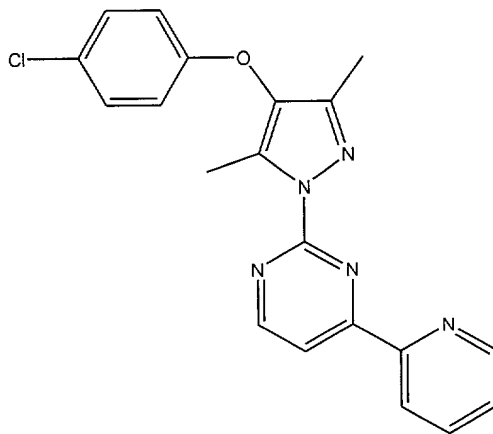
1. A compound of Formula I,



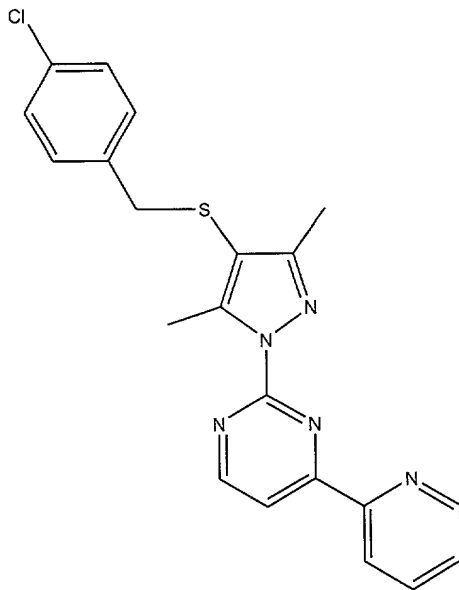
- 5 and physiological salts thereof, wherein:  
 n is 0, 1 or 2;  
 X is O, CH<sub>2</sub>, S or SO<sub>2</sub>;  
 R<sub>1</sub> is H or NH<sub>2</sub>;  
 R<sub>2</sub> and R<sub>3</sub> are each, independently, -H, -OH, a substituted or  
 10 unsubstituted alkyl, or a substituted or unsubstituted alkoxy;  
 R<sub>4</sub> is, -H or a substituted or unsubstituted alkyl;  
 V, W and Z are each, independently, N or CH; and

Y is selected from the group consisting of substituted and unsubstituted phenyl, substituted and unsubstituted heterocyclyl.

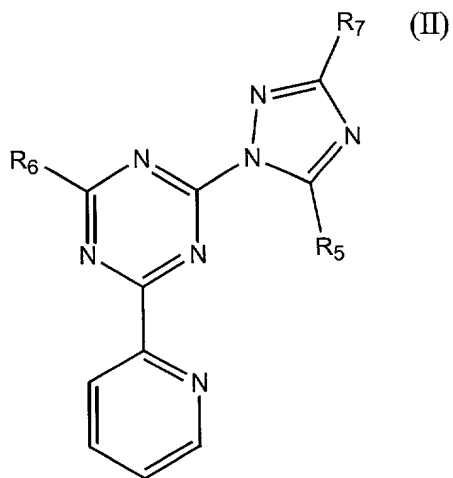
2. The compound of Claim 1, wherein Y is a phenyl group which has one or more substituents independently selected from the group consisting of halogen, linear or branched C<sub>1</sub>-C<sub>4</sub>-alkoxy, trifluoromethoxy, dioxymethylene, hydroxyalkyl, trifluoromethyl, HC(O)-, linear or branched C<sub>1</sub>-C<sub>4</sub>-alkyl, heterocyclyl and substituted or unsubstituted heterocycloalkylalkyl.
3. The compound of Claim 2, wherein Y is a phenyl group which has one or more substituents selected from the group consisting of fluoro, chloro, methoxy, morpholyl, N-morpholinomethyl, tetrahydroisoquinolyl, tetrahydroisoquinolinomethyl, 4-(4-benzyl-piperazin-1-yl)methyl, 4-(4-(2-fluoro-phenyl)piperazin-1-yl)methyl, and isopropyl.
4. The compound of Claim 1, wherein Y is selected from the group consisting of pyridyl, furyl, and pyrrolidyl.
5. A compound represented by the following structural formula:



6. A compound represented by the following structural formula:



7. A compound of Formula II,



and physiological salts thereof, wherein,

$R_5$  is substituted or unsubstituted aralkyl, substituted or unsubstituted cycloalkyl, or substituted or unsubstituted cycloalkylalkyl;

$R_6$  is -H or  $-NR_{13}R_{14}$ ;

5  $R_7$  is substituted or unsubstituted phenyl; and

$R_{13}$  and  $R_{14}$  are each, independently, -H, a substituted or unsubstituted alkyl, a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl; or

10  $R_{13}$  and  $R_{14}$  together with the nitrogen to which they are attached are a heterocycloalkyl.

8. The compound of Claim 7, wherein  $R_5$  is substituted or unsubstituted benzyl.

9. The compound of Claim 8, wherein  $R_5$  is benzyl having one or more substituents independently selected from the group consisting of halogen, linear  $C_1$ - $C_4$ -alkoxy and branched  $C_1$ - $C_4$ -alkoxy.

15 10. The compound of Claim 9, wherein  $R_5$  is benzyl having one or more substituents independently selected from the group consisting of chloro and methoxy.

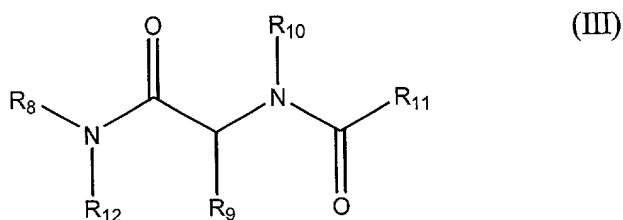
11. The compound of Claim 7, wherein  $R_5$  is  $C_3$ - $C_8$ -cycloalkyl,  $C_3$ - $C_8$ -cycloalkyl- $C_1$ - $C_4$ -alkyl or substituted or unsubstituted phenyl- $C_2$ - $C_4$ -alkyl.

20 12. The compound of Claim 11, wherein  $R_5$  is selected from the group consisting of 2-phenethyl, cyclohexyl and cyclopentylethyl.

13. The compound of Claim 7, wherein  $R_7$  is phenyl having one or more substituents independently selected from the group consisting of halogen, linear  $C_1$ - $C_6$ -alkyl, branched  $C_1$ - $C_6$ -alkyl, cyclic  $C_3$ - $C_6$ -alkyl and trifluoromethyl.

14. The compound of Claim 13, wherein  $R_7$  is phenyl having one or more substituents independently selected from the group consisting of fluoro, chloro, linear  $C_1$ - $C_4$ -alkyl, and branched  $C_1$ - $C_4$ -alkyl.
15. A compound of Formula III,

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and physiological salts thereof, wherein:

$R_8$  and  $R_{12}$  are each, independently, -H, a substituted or unsubstituted alkyl, a substituted or unsubstituted aryl, substituted or unsubstituted aralkyl or a substituted or unsubstituted heteroaralkyl;

10

$R_9$  is -H, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl, a substituted or unsubstituted heteroaryl or a substituted or unsubstituted heteroaralkyl;

15

$R_{10}$  is substituted or unsubstituted alkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted heteroaralkyl, or a substituted or unsubstituted heterocycloalkylalkyl; and

20

$R_{11}$  is a substituted or unsubstituted alkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl, a substituted or unsubstituted cycloalkylalkyl, a substituted or unsubstituted heteroaryl, a substituted or unsubstituted heteroaralkyl, a substituted or unsubstituted benzophenone, or a substituted or unsubstituted cycloalkylalkyl.

16. The compound of Claim 15, wherein one of  $R_8$  or  $R_{12}$  is -H and the other is substituted or unsubstituted phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl, linear  $C_1$ - $C_{12}$ -alkyl, branched  $C_1$ - $C_{12}$ -alkyl, cyclic  $C_3$ - $C_{12}$ -alkyl, or dicycloalkyl- $C_1$ - $C_4$ -alkyl.
- 5 17. The compound of Claim 16, wherein one of  $R_8$  or  $R_{12}$  is -H and the other is phenyl, phenyl- $C_1$ - $C_4$ -alkyl, or diphenyl- $C_1$ - $C_4$ -alkyl wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkyl and cyano.
- 10 18. The compound of Claim 17, wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of methoxy, methyl, ethyl and cyano.
- 15 19. The compound of Claim 15, wherein  $R_8$  is selected from the group consisting of 2,2-diphenylethyl, 2-(4-ethylphenyl)ethyl, benzyl, diphenylmethyl, 1,2-diphenylethyl, 3,3-diphenylpropyl, 3,4,5-trimethoxybenzyl, 2,4,4-trimethylisopentyl, 2-(4-methoxyphenyl)ethyl, 2-cyclopentyl-2-phenylethyl, or 2-phenyl-2-pyridylethyl.
- 20 20. The compound of Claim 15, wherein  $R_9$  is substituted or unsubstituted phenyl, substituted or unsubstituted phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl, phenylfuranyl or heteroaryl- $C_1$ - $C_4$ -alkyl.
- 25 21. The compound of Claim 20, wherein  $R_9$  is phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of cyano,  $C_1$ - $C_4$ -alkyl-S-, a halogen, a halogenated  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, trifluoromethyl, and substituted and unsubstituted phenoxy.

22. The compound of Claim 20, wherein  $R_9$  is phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of cyano, methyl, methoxy, phenoxy, chloro-substituted phenoxy, methoxy-substituted phenoxy and methyl-substituted phenoxy.
23. The compound of Claim 15, wherein  $R_9$  is phenyl, 2-cyanophenyl, 3-cyanophenyl, 4-cyanophenyl, diphenylmethyl, pyrazolylmethyl, 2,4-dimethylphenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 2-methyl-4-methoxyphenyl, 3-methyl-4-methoxyphenyl, 4-methylthiophenyl, 3-chlorophenyl, 3-trifluoromethylphenyl, benzyl, 2-trifluoromethylbenzyl, 3-trifluoromethylbenzyl, 2-chlorobenzyl, 3-chlorobenzyl, 4-chlorobenzyl, 2-methoxybenzyl, 3-methoxybenzyl, 4-methoxybenzyl, 2-fluorobenzyl, 3-fluorobenzyl, 4-fluorobenzyl, 3-azidylphenyl, 3-(4-methoxyphenoxy)phenyl, or 5-phenylfuran-2-yl.
24. The compound of Claim 15, wherein  $R_{10}$  is substituted or unsubstituted phenyl, alkyl substituted with a heteroaryl group, alkyl substituted with a heterocycloalkyl group, or an alkyl substituted with  $-NR_{13}R_{14}$ , wherein:
- $R_{13}$  and  $R_{14}$  are each, independently, -H, a substituted or unsubstituted alkyl, a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl; or
- $R_{13}$  and  $R_{14}$  together with the nitrogen to which they are attached are a heterocycloalkyl.
25. The compound of Claim 24, wherein  $R_{10}$  is 2-(imidazol-4-yl)ethyl, 3-(imidazol-4-yl)propyl, 3-(imidazol-1-yl)propyl, 2-(3-methylimidazol-4-yl)ethyl, 2-(morpholin-4-yl)ethyl, 2-(4-pyrazolyl)ethyl, 4-pyrazolylmethyl, 2-N,N-dimethylaminoethyl, 3-N,N-dimethylaminopropyl, or 2-(aminocarbonyl)phenyl.

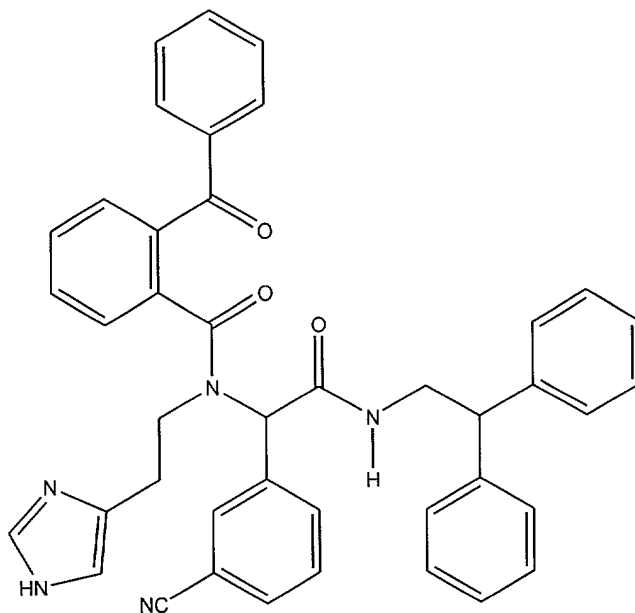
26. The compound of Claim 15, wherein  $R_{11}$  is a linear or branched  $C_1$ - $C_4$ -alkyl, substituted or unsubstituted phenyl, substituted or unsubstituted benzophenonyl, pyrazolyl, aminopyrazolyl, substituted or unsubstituted indolyl- $C_1$ - $C_4$ -alkyl, thiophenyl, quinoxaline, substituted or unsubstituted phenyl- $C_1$ - $C_4$ -alkyl, pyridylcarbonylphenyl, phenylcarbonyl- $C_1$ - $C_4$ -alkyl, naphthyl, naphthyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl,  $C_5$ - $C_8$ -cycloalkyl- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylcarbonyl- $C_1$ - $C_4$ -alkyl, fluorenyl, pyrrolyl, N-methylpyrrolyl, or pyridyl.
27. The compound of Claim 26, wherein  $R_{11}$  is a phenyl, phenyl- $C_1$ - $C_4$ -alkyl, phenylcarbonyl- $C_1$ - $C_4$ -alkyl, naphthyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl,  $C_5$ - $C_8$ -cycloalkyl- $C_1$ - $C_4$ -alkyl, fluorenyl or pyridyl substituted with one or more substituents independently selected from  $C_1$ - $C_4$ -alkyl and  $C_1$ - $C_4$ -alkoxy.
28. The compound of Claim 26, wherein  $R_{11}$  is a benzophenonyl group, wherein said benzophenonyl group is substituted with a  $C_1$ - $C_4$ -alkoxy group, a  $C_1$ - $C_4$ -alkyl group or a chlorine atom.
29. The compound of Claim 15, wherein  $R_{11}$  is benzophenon-2-yl, 4'-methoxybenzophenon-2-yl, 4'-chlorobenzophenon-2-yl, 2-(furan-2-yl)phenyl, 2-(thiophen-2-yl)phenyl, 2-benzylphenyl, 2-pyridylcarbonylphenyl, 2-(phenoxymethyl)phenyl, 2-(*t*-butylcarbonyl)phenyl, 2,2-diphenylethyl, 1-fluorenyl, (naphth-2-yl)methyl, naphth-1-yl, 3-(phenylcarbonyl)propyl, 4-phenylbutyl, 4-butylphenyl, 2-(4-chlorophenylcarbonyl)phenyl, 3-methoxyphenyl, N-methylpyrrol-2-yl, 2,3-dimethoxyphenyl, 3-butyl-2-pyridyl, 2-naphthylmethyl, 2-cyclohexylethyl, 3-methoxyphenyl, N-methyl-2-pyrrolyl, 2-cyclopentylethyl, 3-oxobutyl, 2-benzopyrazyl, quinoxalin-2-yl, 3-idolyl, (2-methylindol-3-yl)methyl, 3-(indol-3-yl)propyl, (indol-3-yl)methyl, (5-bromoindol-3-yl)methyl, 3-chlorophenyl, 3-aminopyrazol-4-yl, 2-(indol-3-yl)-1-



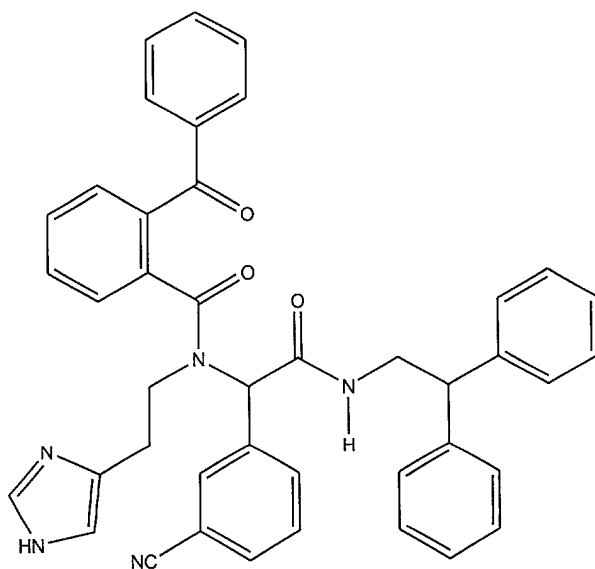
hydroxyethyl, 3-fluorophenyl, 1-phenyl-1-hydroxymethyl, 2-phenylphenyl, 2-phenoxyphenyl, thiophen-2-yl, or isopropyl.

30. A composition of matter comprising an enantiomeric mixture of a compound represented by the following structural formula:

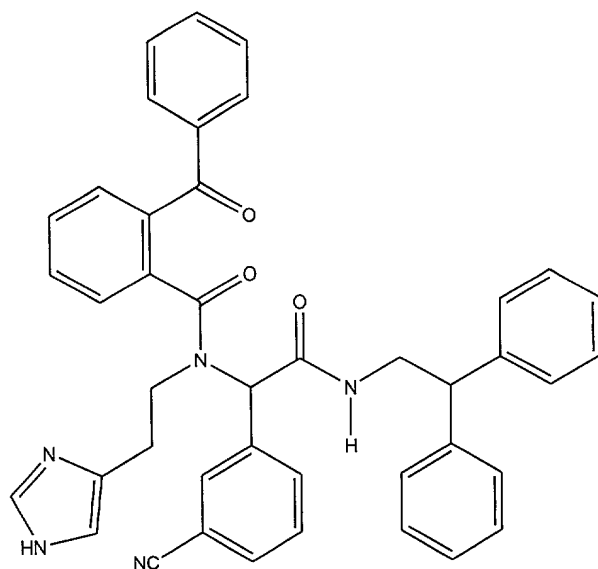
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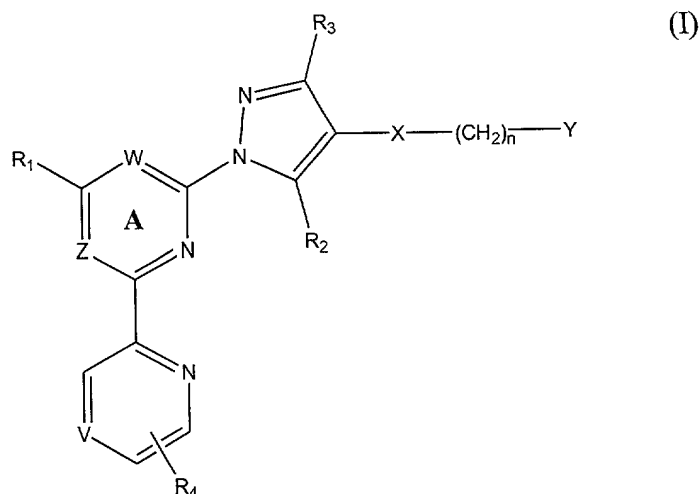
31. A compound which has a positive specific rotation, wherein the compound is represented by the following structural formula:



32. A compound which has a negative specific rotation, wherein the compound is represented by the following structural formula:



33. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising administering to the patient a therapeutically effective amount of a compound of Formula I,



and physiological salts thereof, wherein:

n is 0, 1 or 2;

X is O, CH<sub>2</sub>, S or SO<sub>2</sub>;

5 R<sub>1</sub> is H or NH<sub>2</sub>;

R<sub>2</sub> and R<sub>3</sub> are each, independently, -H, -OH, a substituted or unsubstituted alkyl, or a substituted or unsubstituted alkoxy;

R<sub>4</sub> is, -H or a substituted or unsubstituted alkyl;

V, W and Z are each, independently, N or CH; and

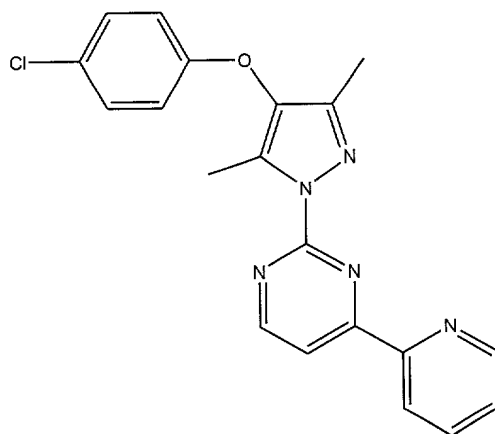
10 Y is selected from the group consisting of substituted and unsubstituted phenyl, and substituted and unsubstituted heterocyclyl.

34. The method of Claim 33, wherein Y is a phenyl group which has one or more substituents independently selected from the group consisting of halogen, linear or branched C<sub>1</sub>-C<sub>4</sub>-alkoxy, trifluoromethoxy, dioxymethylene, hydroxyalkyl, trifluoromethyl, HC(O)-, linear or branched C<sub>1</sub>-C<sub>4</sub>-alkyl, heterocyclyl and substituted or unsubstituted heterocycloalkylalkyl.
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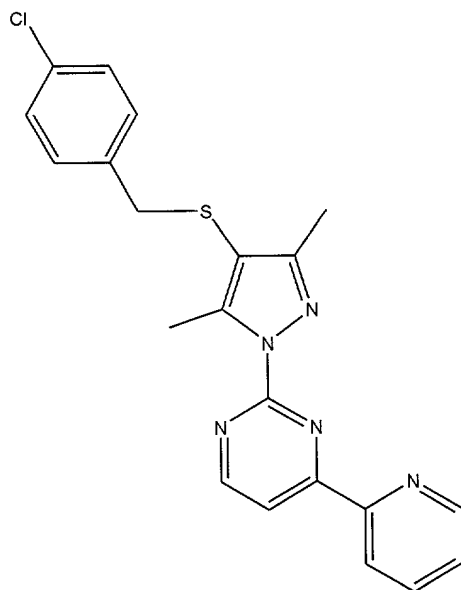
35. The method of Claim 34, wherein Y is a phenyl group which has one or more substituents selected from the group consisting of fluoro, chloro, methoxy, morpholyl, N-morpholinomethyl, tetrahydroisoquinolyl, tetrahydroisoquinolinomethyl, 4-(4-benzyl-piperazin-1-yl)methyl, 4-(4-(2-fluoro-phenyl)piperazin-1-yl)methyl, and isopropyl.
36. The method of Claim 33, wherein Y is selected from the group consisting of pyridyl, furyl, and pyrrolidyl.
37. The method of Claim 33, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of acute and chronic immune and autoimmune pathologies.
38. The method of Claim 37, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of systemic lupus erythematosus, rheumatoid arthritis, thyroidosis, graft versus host disease, scleroderma, diabetes mellitus and Graves' disease.
39. The method of Claim 33, wherein the TNF- $\alpha$  mediated condition is an infection.
40. The method of Claim 39, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of sepsis syndrome, cachexia, circulatory collapse and shock resulting from acute or chronic bacterial infection, acute and chronic parasitic, bacterial, viral and fungal infectious diseases.
41. The method of Claim 33, wherein the TNF- $\alpha$  mediated condition is an inflammatory disease.

42. The method of Claim 41, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of chronic inflammatory pathologies and vascular inflammatory pathologies.
43. The method of Claim 42, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of sarcoidosis, chronic inflammatory bowel disease, ulcerative colitis, Crohn's disease, disseminated intravascular coagulation, atherosclerosis, and Kawasaki's pathology.
44. The method of Claim 33, wherein the TNF- $\alpha$  mediated condition is a neurodegenerative disease.
45. The method of Claim 44, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of multiple sclerosis, acute transverse myelitis, lesions of the corticospinal system, disorders of the basal ganglia or cerebellar disorders, hyperkinetic movement disorders such as Huntington's Chorea and senile chorea, drug-induced movement disorders, hypokinetic movement disorders, progressive supranucleo palsy, astructural lesions of the cerebellum, spinal ataxia, Friedreich's ataxia, cerebellar cortical degenerations, multiple systems degenerations, Refsum's disease, abetalipoproteemia, ataxia, telangiectasia, mitochondrial multisystem disorder, multiple sclerosis, acute transverse myelitis, neurogenic muscular atrophies, Alzheimer's disease, Down's Syndrome in middle age, Diffuse Lewy body disease, Senile Dementia of Lewy body type, Wernicke-Korsakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, Subacute sclerosing panencephalitis, Hallerrorden-Spatz disease, and Dementia pugilistica.
46. The method of Claim 33, wherein the TNF- $\alpha$  mediated condition is cancer.

47. The method of Claim 46, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of TNF- $\alpha$  secreting tumors, leukemias, and lymphomas.
48. The method of Claim 33, wherein the TNF- $\alpha$  mediated condition is alcohol-induced hepatitis.
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49. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising the step of administering to the patient a therapeutically effective amount of a compound represented by the following structural formula:



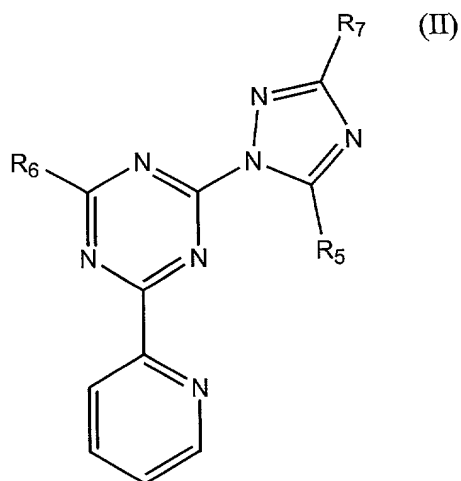
- 10 50. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising the step of administering to the patient a therapeutically effective amount of a compound represented by the following structural formula:



51. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising administering to the patient a therapeutically effective amount of a compound of Formula II,



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and physiological salts thereof, wherein,

$R_5$  is substituted or unsubstituted aralkyl, substituted or unsubstituted cycloalkyl, or substituted or unsubstituted cycloalkylalkyl;

5  $R_6$  is -H or  $-NR_{13}R_{14}$ ;

$R_7$  is substituted or unsubstituted phenyl; and

$R_{13}$  and  $R_{14}$  are each, independently, -H, a substituted or unsubstituted alkyl, a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl; or

10  $R_{13}$  and  $R_{14}$  together with the nitrogen to which they are attached are a heterocycloalkyl.

52. The method of Claim 51, wherein  $R_5$  is substituted or unsubstituted benzyl.

53. The method of Claim 52, wherein  $R_5$  is benzyl having one or more substituents independently selected from the group consisting of halogen, linear  $C_1$ - $C_4$ -alkoxy and branched  $C_1$ - $C_4$ -alkoxy.

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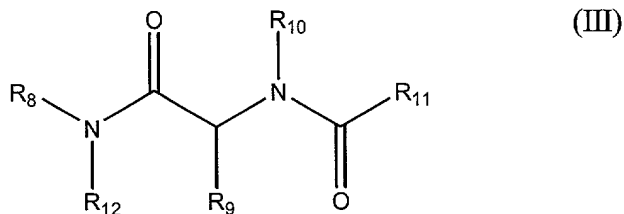
54. The method of Claim 53, wherein  $R_5$  is benzyl having one or more substituents independently selected from the group consisting of chloro and methoxy.
55. The method of Claim 51, wherein  $R_5$  is  $C_3$ - $C_8$ -cycloalkyl,  $C_3$ - $C_8$ -cycloalkyl- $C_1$ - $C_4$ -alkyl or substituted or unsubstituted phenyl- $C_2$ - $C_4$ -alkyl.
- 5 56. The method of Claim 54, wherein  $R_5$  is selected from the group consisting of 2-phenethyl, cyclohexyl and cyclopentylethyl.
57. The method of Claim 51, wherein  $R_7$  is phenyl having one or more substituents independently selected from the group consisting of halogen, linear  $C_1$ - $C_6$ -alkyl, branched  $C_1$ - $C_6$ -alkyl and cyclic  $C_3$ - $C_6$ -alkyl and trifluoromethyl.
- 10 58. The method of Claim 57, wherein  $R_7$  is phenyl having one or more substituents independently selected from the group consisting of fluoro, chloro, linear  $C_1$ - $C_4$ -alkyl, and branched  $C_1$ - $C_4$ -alkyl.
59. The method of Claim 51, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of acute and chronic immune and autoimmune pathologies.
- 15 60. The method of Claim 59, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of systemic lupus erythematosus, rheumatoid arthritis, thyroidosis, graft versus host disease, scleroderma, diabetes mellitus and Graves' disease.
- 20 61. The method of Claim 51, wherein the TNF- $\alpha$  mediated condition is an infection.

62. The method of Claim 61, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of sepsis syndrome, cachexia, circulatory collapse and shock resulting from acute or chronic bacterial infection, acute and chronic parasitic, bacterial, viral and fungal infectious diseases.
- 5 63. The method of Claim 51, wherein the TNF- $\alpha$  mediated condition is an inflammatory disease.
64. The method of Claim 63, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of chronic inflammatory pathologies and vascular inflammatory pathologies.
- 10 65. The method of Claim 64, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of sarcoidosis, chronic inflammatory bowel disease, ulcerative colitis, Crohn's disease, disseminated intravascular coagulation, atherosclerosis, and Kawasaki's pathology.
- 15 66. The method of Claim 51, wherein the TNF- $\alpha$  mediated condition is a neurodegenerative disease.
- 20 67. The method of Claim 66, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of multiple sclerosis, acute transverse myelitis, lesions of the corticospinal system, disorders of the basal ganglia or cerebellar disorders, hyperkinetic movement disorders such as Huntington's Chorea and senile chorea, drug-induced movement disorders, hypokinetic movement disorders, progressive supranucleo palsy, astructural lesions of the cerebellum, spinal ataxia, Friedreich's ataxia, cerebellar cortical degenerations, multiple systems degenerations, Refsum's disease, abetalipoprotemia, ataxia, telangiectasia, mitochondrial multisystem disorder, multiple sclerosis, acute

transverse myelitis, neurogenic muscular atrophies, Alzheimer's disease, Down's Syndrome in middle age, Diffuse Lewy body disease, Senile Dementia of Lewy body type, Wernicke-Korsakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, Subacute sclerosing panencephalitis, Hallerorden-Spatz disease, and Dementia pugilistica.

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68. The method of Claim 51, wherein the TNF- $\alpha$  mediated condition is cancer.
69. The method of Claim 68, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of TNF- $\alpha$  secreting tumors, leukemias, and lymphomas.
- 10 70. The method of Claim 51, wherein the TNF- $\alpha$  mediated condition is alcohol-induced hepatitis.
71. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising administering to the patient a therapeutically effective amount of a compound of Formula III,

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and physiological salts thereof, wherein:

$R_8$  and  $R_{12}$  are each, independently, -H, a substituted or unsubstituted alkyl, a substituted or unsubstituted aryl, substituted or unsubstituted aralkyl or a substituted or unsubstituted heteroaralkyl;

5             $R_9$  is -H, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl, a substituted or unsubstituted heteroaryl or a substituted or unsubstituted heteroaralkyl;

$R_{10}$  is substituted or unsubstituted alkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted heteroaralkyl, or a substituted or  
10            unsubstituted heterocycloalkylalkyl; and

$R_{11}$  is a substituted or unsubstituted alkyl, a substituted or unsubstituted aryl, a substituted or unsubstituted aralkyl, a substituted or unsubstituted cycloalkylalkyl, a substituted or unsubstituted heteroaryl, a substituted or  
15            unsubstituted heteroaralkyl, a substituted or unsubstituted benzophenonyl, or a substituted or unsubstituted cycloalkylalkyl.

72.        The method of Claim 71, wherein one of  $R_8$  or  $R_{12}$  is -H and the other is substituted or unsubstituted phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl, linear  $C_1$ - $C_{12}$ -alkyl, branched  $C_1$ - $C_{12}$ -alkyl, cyclic  $C_3$ - $C_{12}$ -alkyl, or dicycloalkyl- $C_1$ - $C_4$ -alkyl.

20        73.        The method of Claim 72, wherein one of  $R_8$  or  $R_{12}$  is -H and the other is phenyl, phenyl- $C_1$ - $C_4$ -alkyl, or diphenyl- $C_1$ - $C_4$ -alkyl wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkyl and cyano.

25        74.        The method of Claim 73, wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of methoxy, methyl and cyano.

75. The method of Claim 71, wherein  $R_8$  is selected from the group consisting of 2,2-diphenylethyl, 2-(4-ethylphenyl)ethyl, benzyl, diphenylmethyl, 1,2-diphenylethyl, 3,3-diphenylpropyl, 3,4,5-trimethoxybenzyl, 2,4,4-trimethylisopentyl, 2-(4-methoxyphenyl)ethyl, 2-cyclopentyl-2-phenylethyl, or 2-phenyl-2-pyridylethyl.
76. The method of Claim 71 wherein  $R_9$  is substituted or unsubstituted phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl, phenylfuranyl or heteroaryl- $C_1$ - $C_4$ -alkyl.
77. The method of Claim 76, wherein  $R_9$  is phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of cyano,  $C_1$ - $C_4$ -alkyl-S-, a halogen  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, trifluoromethyl, and substituted and unsubstituted phenoxy.
78. The method of Claim 76, wherein  $R_9$  is phenyl, phenyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl wherein the phenyl group or phenyl groups bear one or more substituents independently selected from the group consisting of cyano, methyl, methoxy, phenoxy, chloro-substituted phenoxy, methoxy-substituted phenoxy and methyl-substituted phenoxy.
79. The compound of Claim 71, wherein  $R_9$  is phenyl, 2-cyanophenyl, 3-cyanophenyl, 4-cyanophenyl, diphenylmethyl, pyrazolylmethyl, 2,4-dimethylphenyl, 2-methylphenyl, 3-methylphenyl, 4-methylphenyl, 2-methyl-4-methoxyphenyl, 3-methyl-4-methoxyphenyl, 4-methylthiophenyl, 3-chlorophenyl, 3-trifluoromethylphenyl, benzyl, 2-trifluoromethylbenzyl, 3-trifluoromethylbenzyl, 2-chlorobenzyl, 3-chlorobenzyl, 4-chlorobenzyl, 2-methoxybenzyl, 3-methoxybenzyl, 4-methoxybenzyl, 2-fluorobenzyl, 3-

fluorobenzyl, 4-fluorobenzyl, 3-azidylphenyl, 3-(4-methoxyphenoxy)phenyl, or 5-phenylfuran-2-yl.

80. The method of Claim 71, wherein  $R_{10}$  is substituted or unsubstituted phenyl, alkyl substituted with a heteroaryl group, alkyl substituted with a heterocycloalkyl group, or an alkyl substituted with  $-NR_{13}R_{14}$ , wherein:  
5  $R_{13}$  and  $R_{14}$  are each, independently, -H, a substituted or unsubstituted alkyl, a substituted or unsubstituted cycloalkyl, a substituted or unsubstituted aryl, or a substituted or unsubstituted aralkyl; or  
10  $R_{13}$  and  $R_{14}$  together with the nitrogen to which they are attached are a heterocycloalkyl.
81. The method of Claim 80, wherein  $R_{10}$  is 2-(imidazol-4-yl)ethyl, 3-(imidazol-4-yl)propyl, 3-(imidazol-1-yl)propyl 2-(3-methylimidazol-4-yl)ethyl, 2-(morpholin-4-yl)ethyl, 2-(4-pyrazolyl)ethyl, 4-pyrazolylmethyl, 2-N,N-dimethylaminoethyl, 3-N,N-dimethylaminopropyl, and 2-(aminocarbonyl)phenyl.  
15
82. The method of Claim 71, wherein  $R_{11}$  is a linear or branched  $C_1$ - $C_4$ -alkyl, substituted or unsubstituted phenyl, substituted or unsubstituted benzophenonyl, pyrazolyl, aminopyrazolyl, substituted or unsubstituted indolyl- $C_1$ - $C_4$ -alkyl, thiophenyl, quinoxaline, substituted or unsubstituted phenyl- $C_1$ - $C_4$ -alkyl,  
20 pyridylcarbonylphenyl, phenylcarbonyl- $C_1$ - $C_4$ -alkyl, naphthyl, naphthyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl,  $C_5$ - $C_8$ -cycloalkyl- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylcarbonyl- $C_1$ - $C_4$ -alkyl, fluorenyl, pyrrolyl, N-methylpyrrolyl, or pyridyl.
83. The method of Claim 82, wherein  $R_{11}$  is a phenyl, phenyl- $C_1$ - $C_4$ -alkyl, phenylcarbonyl- $C_1$ - $C_4$ -alkyl, naphthyl- $C_1$ - $C_4$ -alkyl, diphenyl- $C_1$ - $C_4$ -alkyl,  $C_5$ - $C_8$ -

cycloalkyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, fluorenyl or pyridyl substituted with one or more substituents independently selected from C<sub>1</sub>-C<sub>4</sub>-alkyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy.

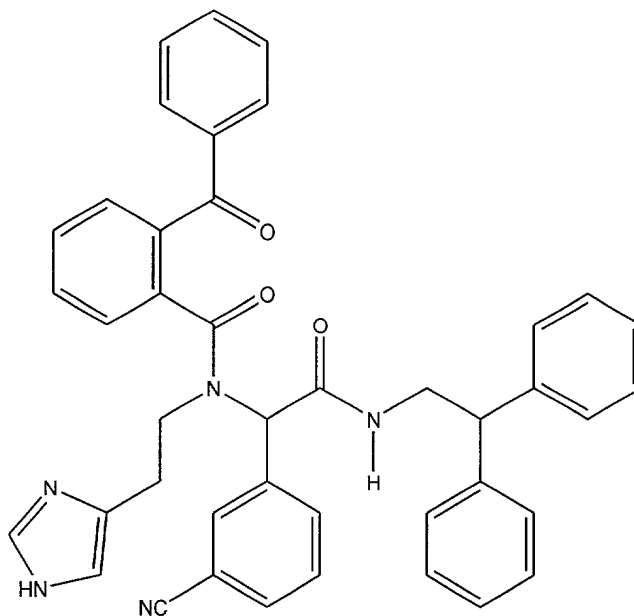
84. The method of Claim 82, wherein R<sub>11</sub> is a benzophenonyl group, wherein said benzophenonyl group is substituted with a C<sub>1</sub>-C<sub>4</sub>-alkoxy group, a C<sub>1</sub>-C<sub>4</sub>-alkyl group or a chlorine atom.
85. The method of Claim 71, wherein R<sub>11</sub> is benzophenon-2-yl, 4'-methoxybenzophenon-2-yl, 4'-chlorobenzophenon-2-yl, 2-(furan-2-yl)phenyl, 2-(thiophen-2-yl)phenyl, 2-benzylphenyl, 2-pyridylcarbonylphenyl, 2-(phenoxymethyl)phenyl, 2-(*t*-butylcarbonyl)phenyl, 2,2-diphenylethyl, 1-fluorenyl, (naphth-2-yl)methyl, naphth-1-yl, 3-(phenylcarbonyl)propyl, 4-phenylbutyl, 4-butylphenyl, 2-(4-chlorophenylcarbonyl)phenyl, 3-methoxyphenyl, N-methylpyrrol-2-yl, 2,3-dimethoxyphenyl, 3-butyl-2-pyridyl, 2-naphthylmethyl, 2-cyclohexylethyl, 3-methoxyphenyl, N-methyl-2-pyrrolyl, 2-cyclopentylethyl, 3-oxobutyl, 2-benzopyrazyl, quinoxalin-2-yl, 3-idolyl, (2-methylindol-3-yl)methyl, 3-(indol-3-yl)propyl, (indol-3-yl)methyl, (5-bromoindol-3-yl)methyl, 3-chlorophenyl, 3-aminopyrazol-4-yl, 2-(indol-3-yl)-1-hydroxyethyl, 3-fluorophenyl, 1-phenyl-1-hydroxymethyl, 2-phenylphenyl, 2-phenoxyphenyl, thiophen-2-yl, or isopropyl.
86. The method of Claim 71, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of acute and chronic immune and autoimmune pathologies.
87. The method of Claim 86, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of systemic lupus erythematosus, rheumatoid arthritis, thyroidosis, graft versus host disease, scleroderma, diabetes mellitus and Graves' disease.



88. The method of Claim 71, wherein the TNF- $\alpha$  mediated condition is an infection.
89. The method of Claim 88, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of sepsis syndrome, cachexia, circulatory collapse and shock resulting from acute or chronic bacterial infection, acute and chronic  
5 parasitic, bacterial, viral and fungal infectious diseases.
90. The method of Claim 71, wherein the TNF- $\alpha$  mediated condition is an inflammatory disease.
91. The method of Claim 90 wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of chronic inflammatory pathologies and vascular  
10 inflammatory pathologies.
92. The method of Claim 91, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of sarcoidosis, chronic inflammatory bowel disease, ulcerative colitis, Crohn's disease, disseminated intravascular coagulation, atherosclerosis, and Kawasaki's pathology.
- 15 93. The method of Claim 71, wherein the TNF- $\alpha$  mediated condition is a neurodegenerative disease.
94. The method of Claim 93, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of multiple sclerosis, acute transverse myelitis, lesions of the corticospinal system, disorders of the basal ganglia or cerebellar  
20 disorders, hyperkinetic movement disorders such as Huntington's Chorea and senile chorea, drug-induced movement disorders, hypokinetic movement disorders, progressive supranucleo palsy, astructural lesions of the cerebellum, spinal ataxia, Friedreich's ataxia, cerebellar cortical degenerations, multiple

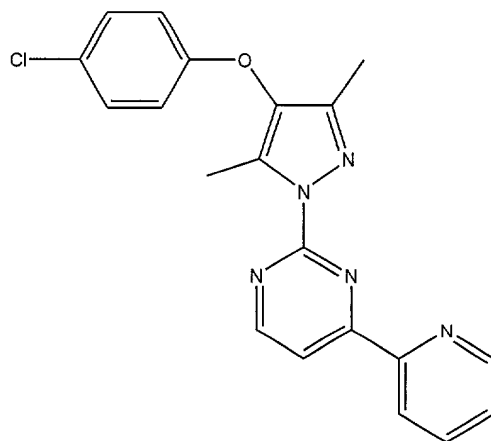
systems degenerations, Refsum's disease, abetalipoproteinemia, ataxia, telangiectasia, mitochondrial multisystem disorder, multiple sclerosis, acute transverse myelitis, neurogenic muscular atrophies, Alzheimer's disease, Down's Syndrome in middle age, Diffuse Lewy body disease, Senile Dementia of Lewy body type, Wernicke-Korsakoff syndrome, chronic alcoholism, Creutzfeldt-Jakob disease, Subacute sclerosing panencephalitis, Hallerorden-Spatz disease, and Dementia pugilistica.

- 5
95. The method of Claim 71, wherein the TNF- $\alpha$  mediated condition is cancer.
- 10
96. The method of Claim 95, wherein the TNF- $\alpha$  mediated condition is selected from the group consisting of TNF- $\alpha$  secreting tumors, leukemias, and lymphomas.
97. The method of Claim 71, wherein the TNF- $\alpha$  mediated condition is alcohol-induced hepatitis.
- 15
98. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising the step of administering to the patient a therapeutically effective amount of a compound represented by the following structural formula:

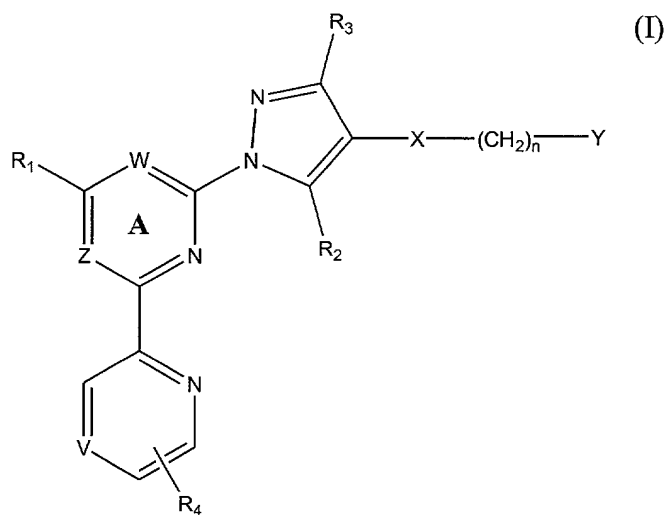


99. The method of Claim 98, wherein the compound has a positive specific rotation.
100. The method of Claim 98, wherein the compound has a negative specific rotation.
101. A method of treating multiple sclerosis in a patient, comprising the step of  
5 administering to the patient a therapeutically effective amount of a compound  
represented by the following structural formula:

-108-



102. A compound of Formula I,



and physiological salts thereof, wherein:

-109-

n is 0, 1 or 2;

X is O, CH<sub>2</sub>, S or SO<sub>2</sub>;

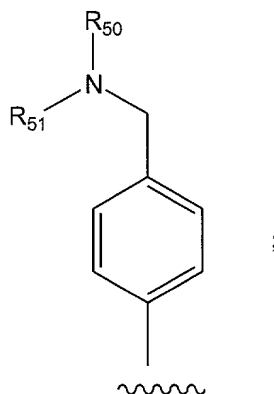
R<sub>1</sub> is H or NH<sub>2</sub>;

5      R<sub>2</sub> and R<sub>3</sub> are each, independently, -H, -OH, a substituted or unsubstituted alkyl, or a substituted or unsubstituted alkoxy;

R<sub>4</sub> is, -H or a substituted or unsubstituted alkyl;

V, W and Z are each, independently, N or CH; and

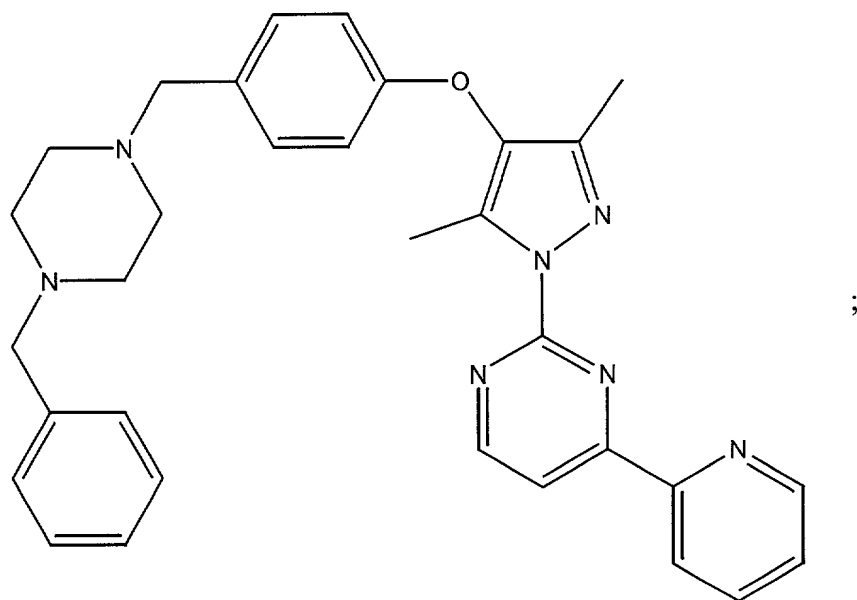
Y is represented by the following structural formula:



10      wherein R<sub>50</sub> and R<sub>51</sub> are independently an alkyl group, a substituted alkyl group, an aryl group a substituted aryl group, or, taken together with the nitrogen atom to which they are bonded, are a substituted heterocycloalkyl, an unsubstituted heterocycloalkyl, a substituted heteroaryl group or an unsubstituted heteroaryl group.

15      103. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising administering to the patient a therapeutically effective amount of the compound of Claim 102.

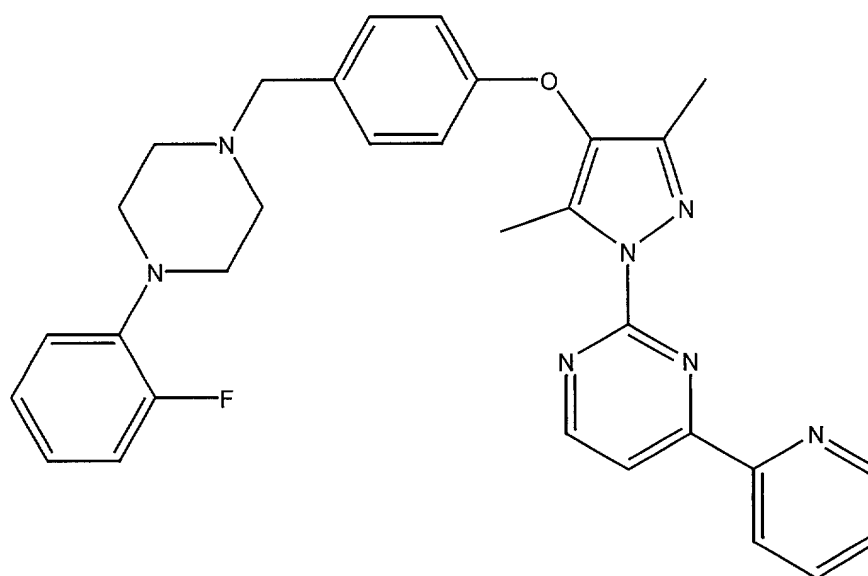
104. A compound represented by the following structural formula:



and physiologically acceptable salts thereof.

105. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising  
5 administering to the patient a therapeutically effective amount of the compound  
of Claim 104.
106. A compound represented by the following structural formula:

-111-



and physiologically acceptable salts thereof.

107. A method of treating a TNF- $\alpha$  mediated condition in a patient, comprising administering to the patient a therapeutically effective amount of the compound of Claim 106.